

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/051830 A1

(51) International Patent Classification⁷: B66B 23/12

(21) International Application Number:
PCT/KR2004/003077

(22) International Filing Date:
26 November 2004 (26.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2003-0085911
29 November 2003 (29.11.2003) KR

(71) Applicant (for all designated States except US): OTIS ELEVATOR COMPANY [US/US]; Ten Farm Springs, Farmington, CT 06032 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): KIM, Jeong Rak [KR/KR]; 290-43 Sungui 2-dong, Nam-gu, Incheon 402-817 (KR).

(74) Agent: AN, Kook Chan; Hannuri Bldg., 219, Naeja-dong, Chongno-gu, Seoul 110-053 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

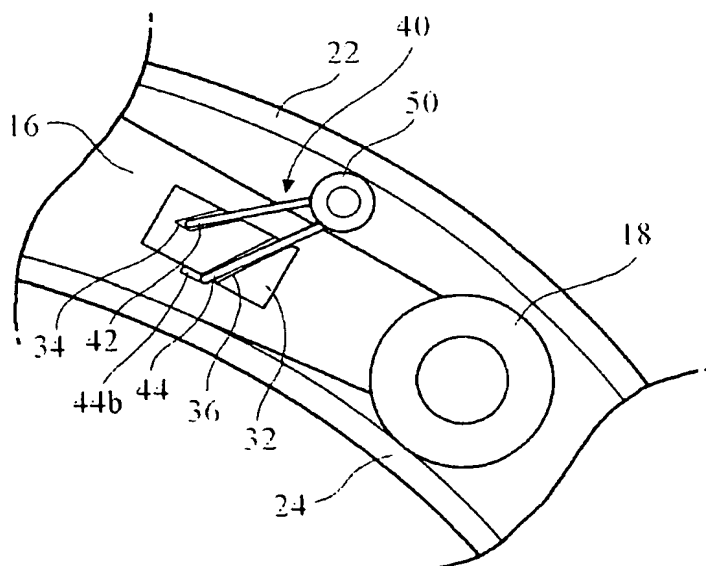
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DEVICE FOR RESTRAINING THE RISE OF A STEP ROLLER OF AN ESCALATOR



(57) Abstract: A device for restraining the rise of a step roller of an escalator prevents the step roller from colliding with rails of a track in turn around areas at the top and bottom of the escalator. The device comprises: a supplementary roller, which is disposed between an outer rail and an inner rail of the track; an elastic member for biasing the supplementary roller toward the outer rail to roll thereon; and a supporting block to which the elastic member is fixed.

BEST AVAILABLE COPY

WO 2005/051830 A1